

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangma”, Belgaum -590014, Karnataka.



PROJECT WORK-1 REPORT on

HOSTEL MANAGEMENT SYSTEM

Submitted by

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Under the Guidance of
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Assistant Professor, BMSCE

in partial fulfillment for the award of the degree of
BACHELOR OF ENGINEERING
in
COMPUTER SCIENCE AND ENGINEERING



B.M.S. COLLEGE OF ENGINEERING
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Department of Computer Science and Engineering



CERTIFICATE

This is to certify that the project work entitled “**HOSTEL MANAGEMENT SYSTEM**” carried out by **JIGAR D PATEL (1BM21CS081), KRISHN MALOO (1BM21CS092) AND KSHITIJ S(1BM21CS093)** who are bonafide students of **B. M. S. College of Engineering**. It is in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visveswararajah Technological University, Belgaum during the year 2022-23. The project report has been approved as it satisfies the academic requirements in respect of **Web Application Development (21CS3AEWAD)** work prescribed for the said degree.

Signature of the Guide
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Name of the Examiner

Signature with date

1. _____

2. _____

B.M.S. COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



DECLARATION

We, JIGAR D PATEL (1BM21CS081), KRISHN MALOO (1BM21CS092), KSHITIJ S (1BM21CS093), students of 3rd Semester, B.E, Department of Computer Science and Engineering, BMS College of Engineering, Bangalore, hereby declare that, this Web Application Development entitled "Hostel Management System" has been carried out by us under the guidance of Namratha M, Assistant Professor, Department of CSE, BMS College of Engineering, Bangalore during the academic semester Oct-Feb 2022-23.

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

JIGAR D PATEL (1BM21CS081)

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KSHITIJ S (1BM21CS093)

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Chapter 1

INTRODUCTION

1.1 Overview

In this Project “Hostel-Management System”, we have made an effort to make the Hostel-System of BMSETH online. Our website includes exclusive features for Hostellers like Hostel leave application forms, Suggestion box, Complaint box, personalized dashboard etc. We also have information about Hostel facilities like Hostel Events, Mess, Accommodation and Admissions, Code of Conduct, Anti-ragging norms etc.

1.2 Motivation

Our major advantages can be summarized as follows:

Easy Access

Making Hostel- Website online would ensure easy access to hostel-facilities to both Freshers seeking admissions into BMSETH and presently residing hostellers in campus.

Easy Payments Options

Presently Hostel accepts payments only in offline mode, This project will help making transactions online and henceforth there will be easier and smoother payments.

Easy Communication:

Communication among hostelites, Hostel admins and Guardians.

Reactive:

Presently BMSETH website is not reactive, In this website, the data will be regularly updated.

Chapter 2

SOFTWARE REQUIREMENTS

2.1 Hardware Requirements:

- A PC with the following or greater specifications:
 - Intel Core i5 (11th gen or higher)
 - 8 GB RAM
 - 512 SSD
- A stable internet connection (2Mbps or higher).

2.2 Software Requirements:

- Operating system : Windows 11
- Technologies : HTML, CSS, JavaScript
- IDE : Visual Studio Code

Chapter 3

USER INTERFACE DESIGN

3.1 Home Page (Landing Page)

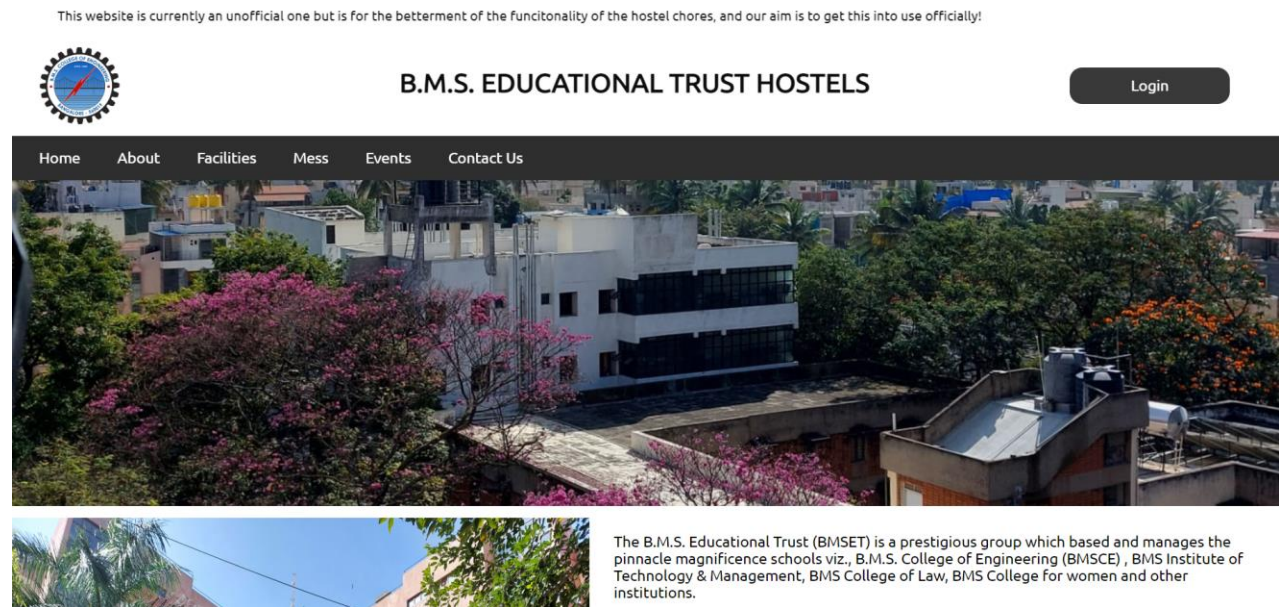


Fig.1.1 Home page-Header

- The page is divided using <div> tags.
- The page is divided into three parts – header, main body and footer.
- Header contains floater, title and login button along with navigation bar and followed by an image.
- The body contains a brief introduction/description about hostels.

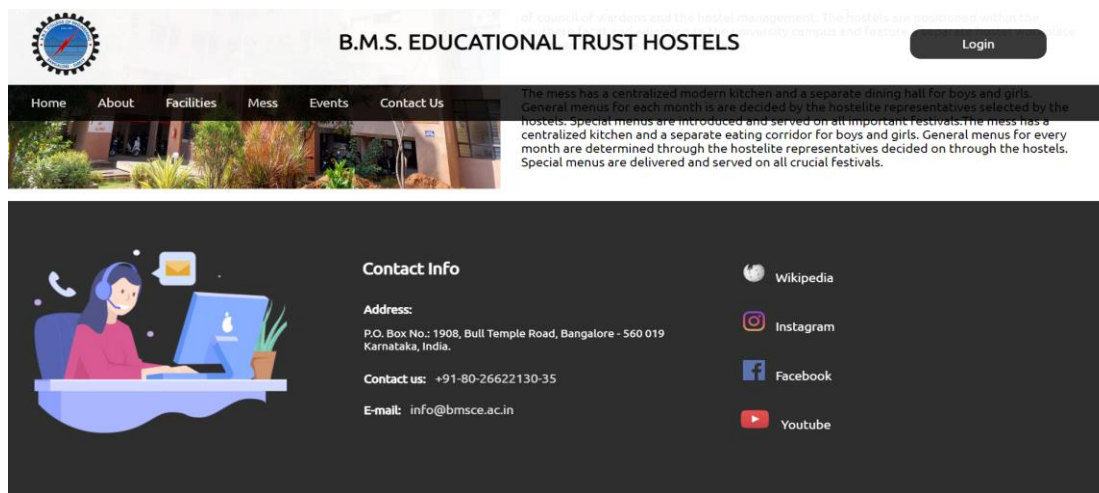


Fig 1.2 Home-Footer

- The footer contains contact information and is divided into three sub parts containing an image, contact information and social media handles respectively.

3.1.1 Admission

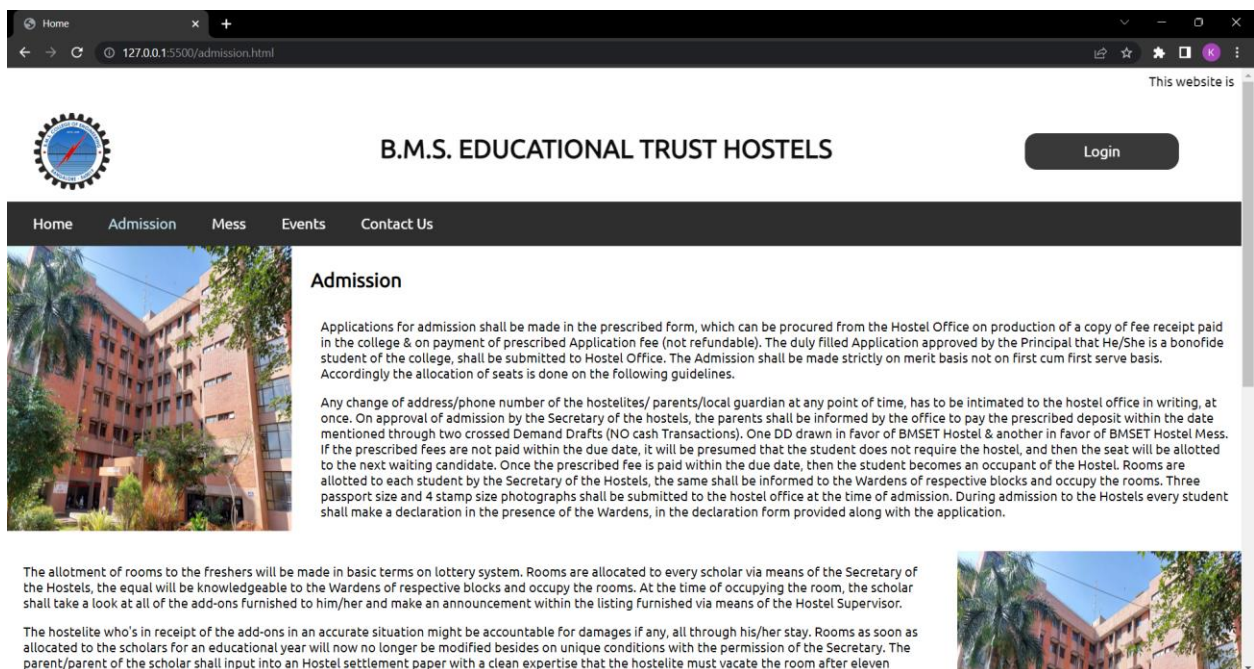


Fig 3.1.1 Admission

- Admission tab is a descriptive page which gives information about the admission procedure into the hostels and rules and regulations.

3.1.2 Mess

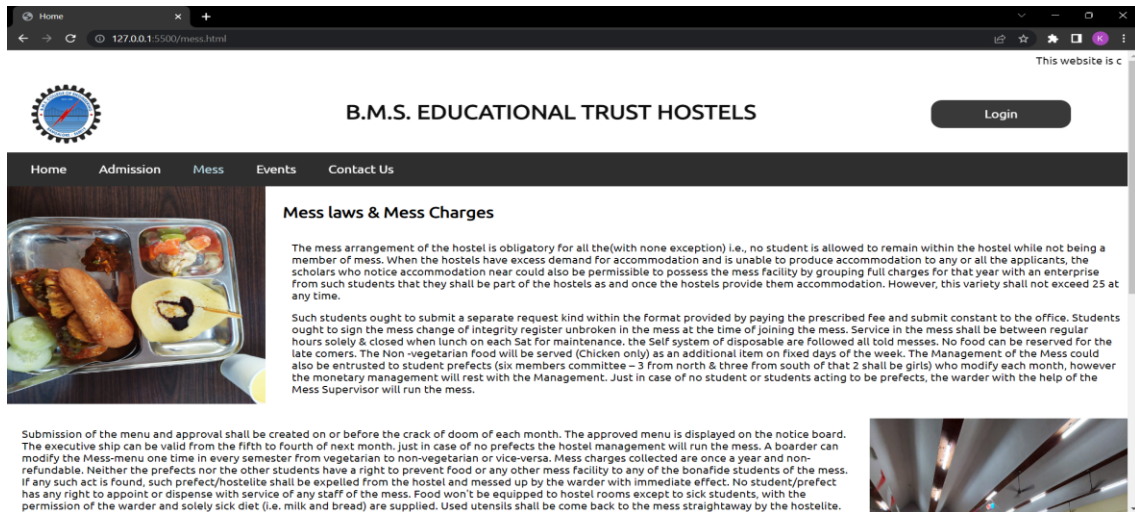


Fig 3.1.2 Mess

- Tab includes information about mess laws and charges along with a description about the food served.

3.1.3 Events

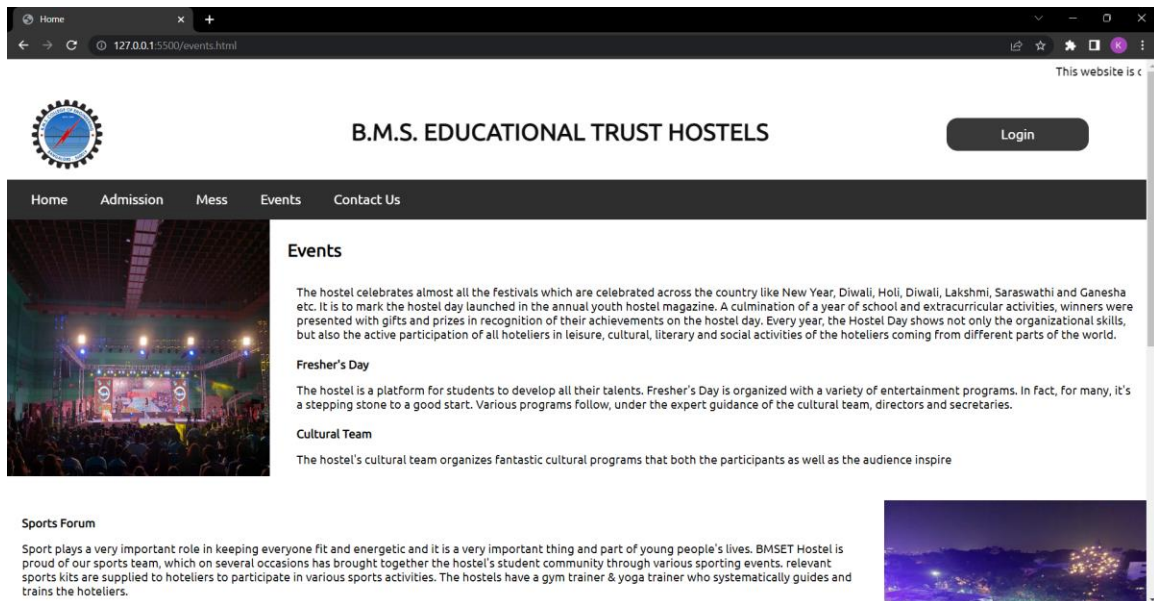


Fig 3.1.3 Events

- Tab gives information about the events conducted by BMSETH and gives a brief description about them.

3.2 Login Page

- Hostelites should sign-in to view details/status of their accommodation and services by Hostel
- Username and password should be entered by the student to login.
- The submit button on clicking/hovering changes its properties (as shown in fig 2.2).
- The page validates if a valid username is entered and displays a pop-up when login is successful.

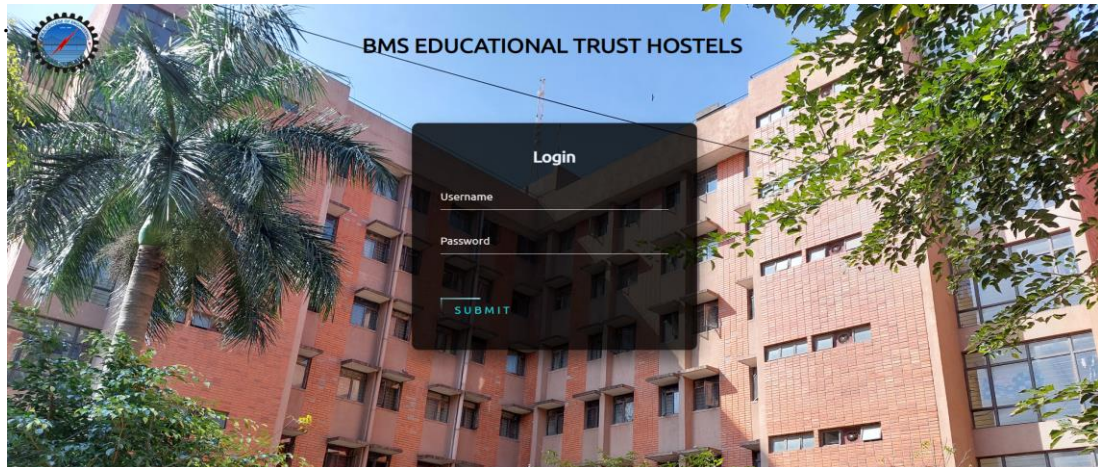


Fig 2.1

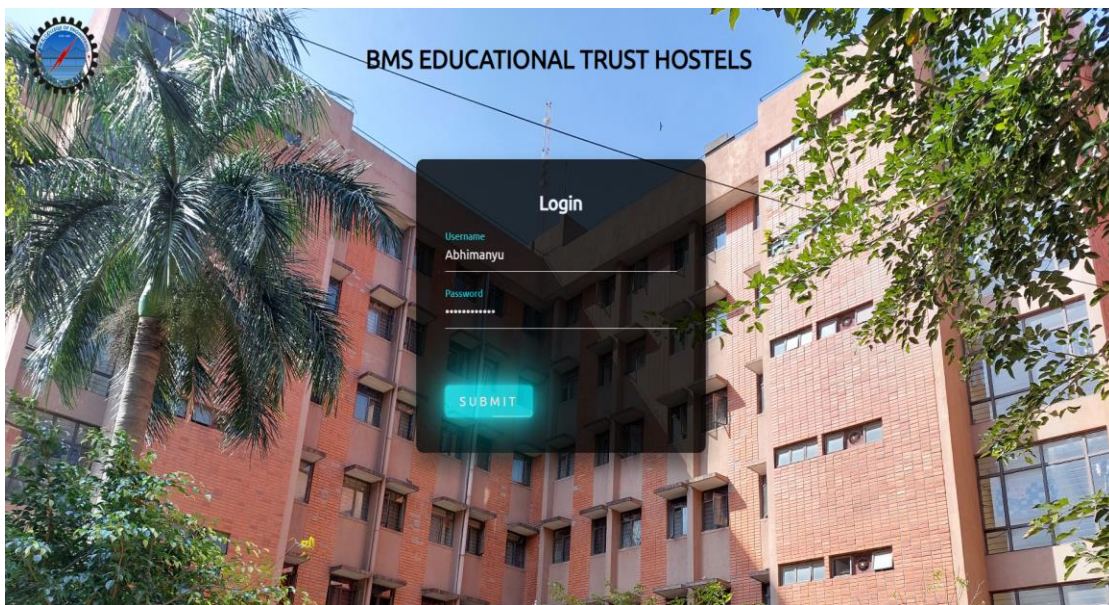


Fig 2.2

Validations

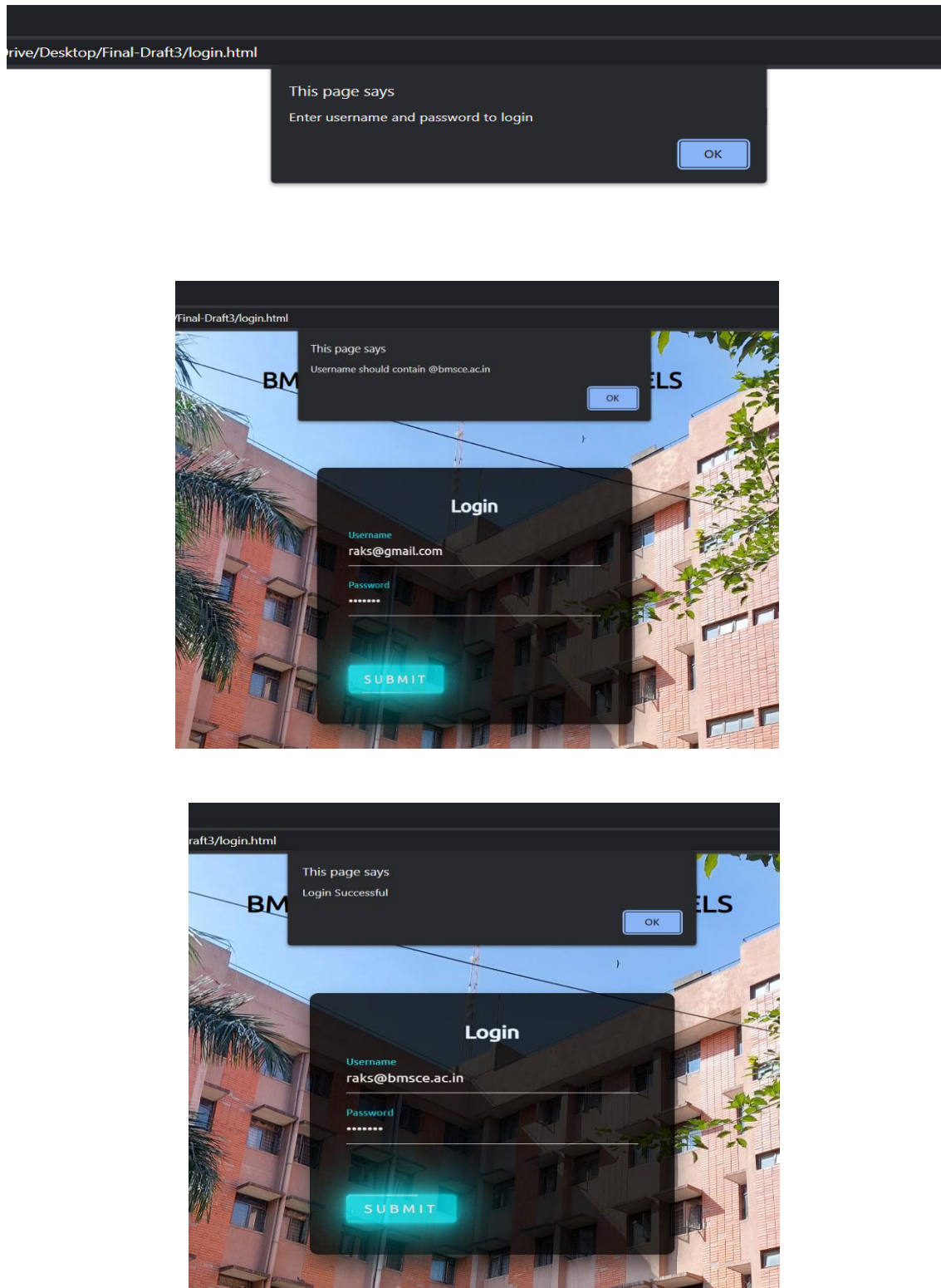


Fig 2.3

3.3 After Login-Page

- This is the page user reaches after logging in.
- This page is divided into two parts header and body.
- The header contains logo, title and button which directs back to main website along with a navigation tab with link to different pages.

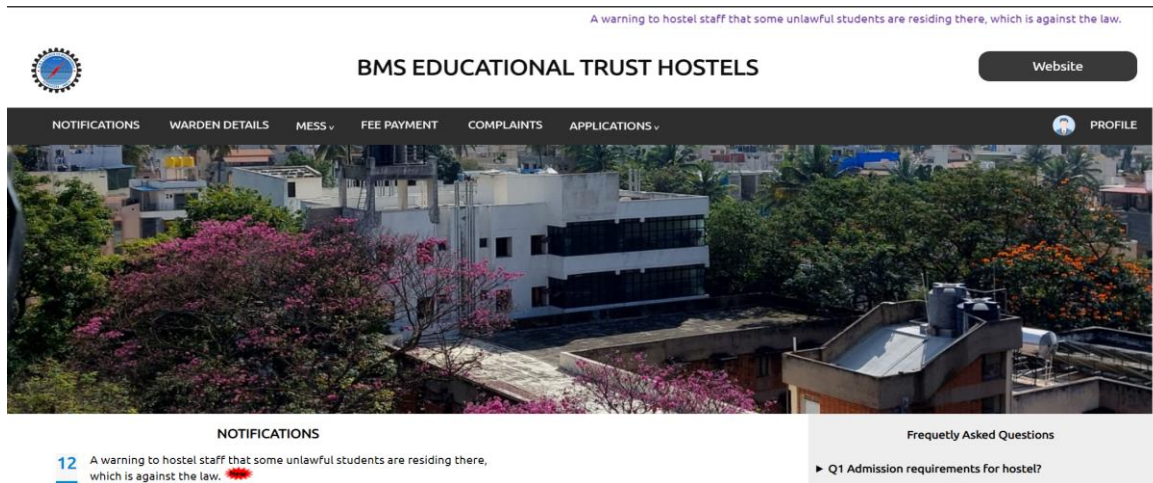


Fig 3.1

- Body is divided into two parts one contains the notification along with date and summary tag is used here to provide an option to read more about a particular notification.
- Similarly, the other part has FAQs and summary tag is used here also.

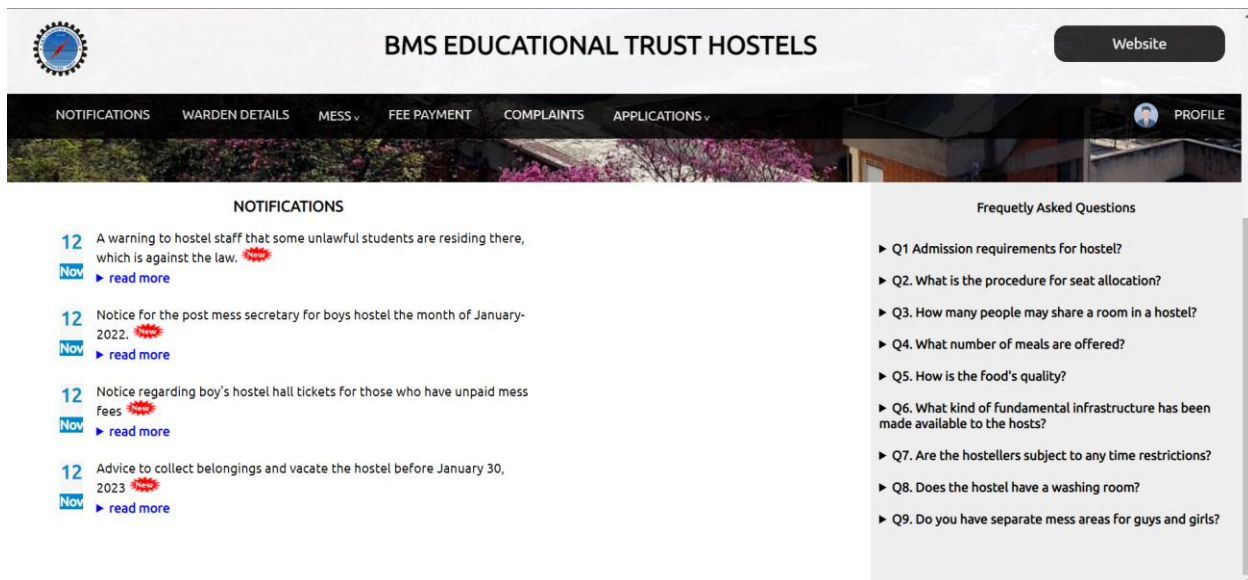


Fig 3.2

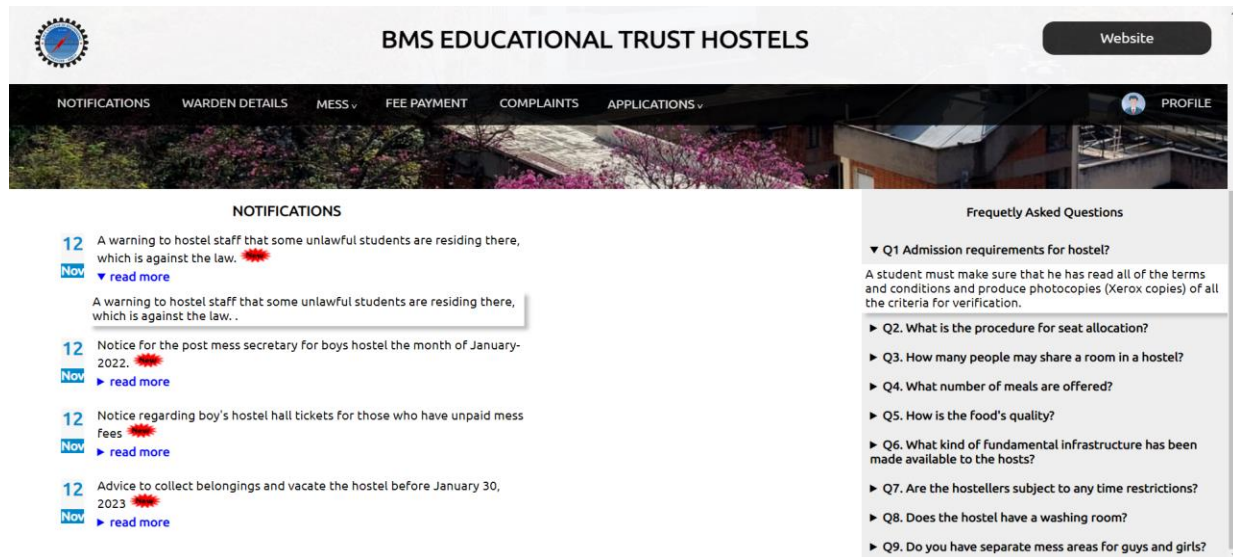


Fig 3.3

3.3.1 Student-Detail Page (Profile)

- Tab contains personal and academic information of the student.
- The page is divided using <div> tags and there are options to change profile photo as well.
- Displays academic history, family background, hostel room details etc.

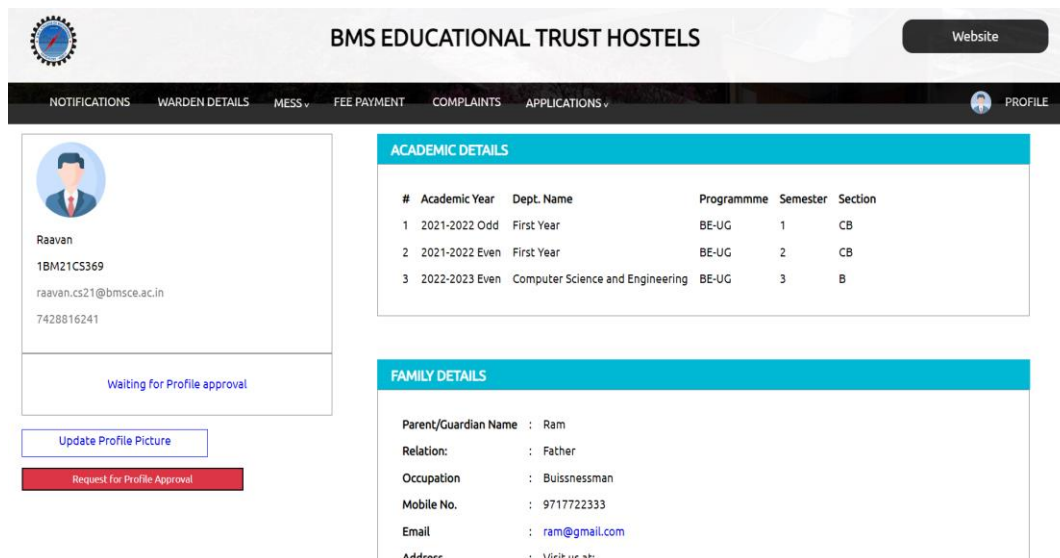


Fig 3.3.1.1

3.3.2 Warden Details Tab

- Following page displays details of warden and supervisor.
- Contains contact information of the warden and supervisor.
- Page is divided using <div> tags.

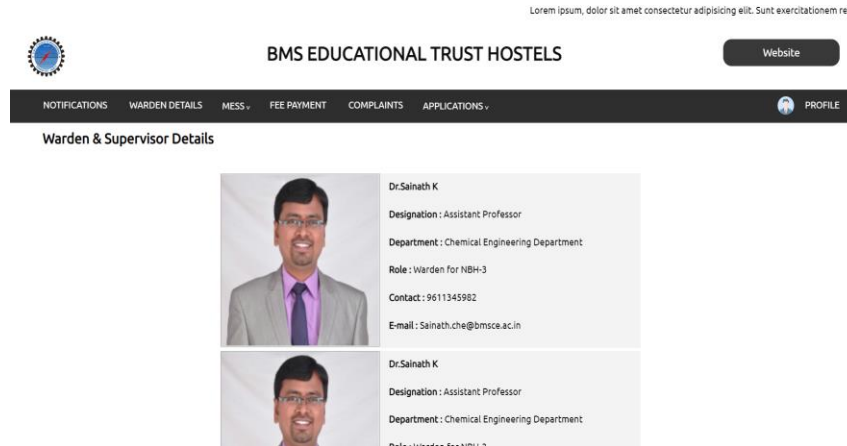


Fig 3.3.2

3.3.3 Mess

- Contains two dropdown options – menu and suggestion form.
- Menu page contains the menu in .jpg form.
- Suggestion form takes in suggestions for the menu based on day and meal.

3.3.3.1 Menu

The screenshot shows the 'Mess-Menu' page of the BMS Educational Trust Hostels website. The page title is 'Mess-Menu'. Below the title, there is a table titled 'MESS MENU FOR THE MONTH OF NOVEMBER-DECEMBER 2022.' The table has four columns: BREAKFAST, LUNCH, SNACKS, and DINNER. The table lists meals for Monday, Tuesday, Wednesday, and Thursday.

| | BREAKFAST | LUNCH | SNACKS | DINNER |
|------------|---|--|--|---|
| Mon | Chole Bhature, Sprouts, Boiled egg, Seasonal fruits, Milk (Boost powder), TC. | Butter Chapati, Veg Kolhapur, Jeera rice, Rice, Rasam, Dal, Curd, Chilli, Papad, Sweet-corn, Pickle. | Samosa, Badam milk, Tea. | Butter Chapati, Dal tadka, Alasandi Kalu palya, Khara Pongal, Rice, Pumpkin sambar, Ghee, Curd, pickle, Fruit salad with custard. |
| Tue | Benne Masala Dose, ground chutney, Sambar, Fruit juice, TC. | Butter Chapati, Aloo Gobi, Groundnut masala, Veg Palya, Dal, Rice, Rasam, Vegetable sambar, Curd, Puliogare, Pickle. | Peri-peri Fries, Hot chocolate milk, Coffee. | Methi Chapati, Dal, Black chole Masala, Egg bhurji, Pudina rice, Rice, Sambar, curd, pickle, Carrot halwa / Jalebi. |
| Wed | Poha, Omelette, Bread Jam, Sprouts, Pineapple Juice, TC. | Poori, Aloo dum, Coconut chutney, rice, Rasam, sambar, Dal tadka, Vegetable salad, Methi pulao, Boti-papads, Pickle. | Dabeli Milk (Boost powder), Tea. | Butter Roti, Butter Paneer masala, Ghee Rice, Rice, Dal, Butter Chicken masala, curd, Chutney Pudi, Pickle, Triple bar. |
| Thu | Set Dosa, Sambar, Chutney, Watermelon, TMC. | Butter Chapati, Bhindi masala Palya, Black chana dry, Bisibelebath, Bundi, Rice, Rasam, Palak Dal, Vegetable | Tikki puri, Cold Buttermilk. | Chapati, Hesaru Kaalu Palya, Gobi 65, Dal, Rice, Radish sambar, Palak rice, Curd, pickle. |

Fig 3.3.3.1

3.3.3.2 Suggestion Form

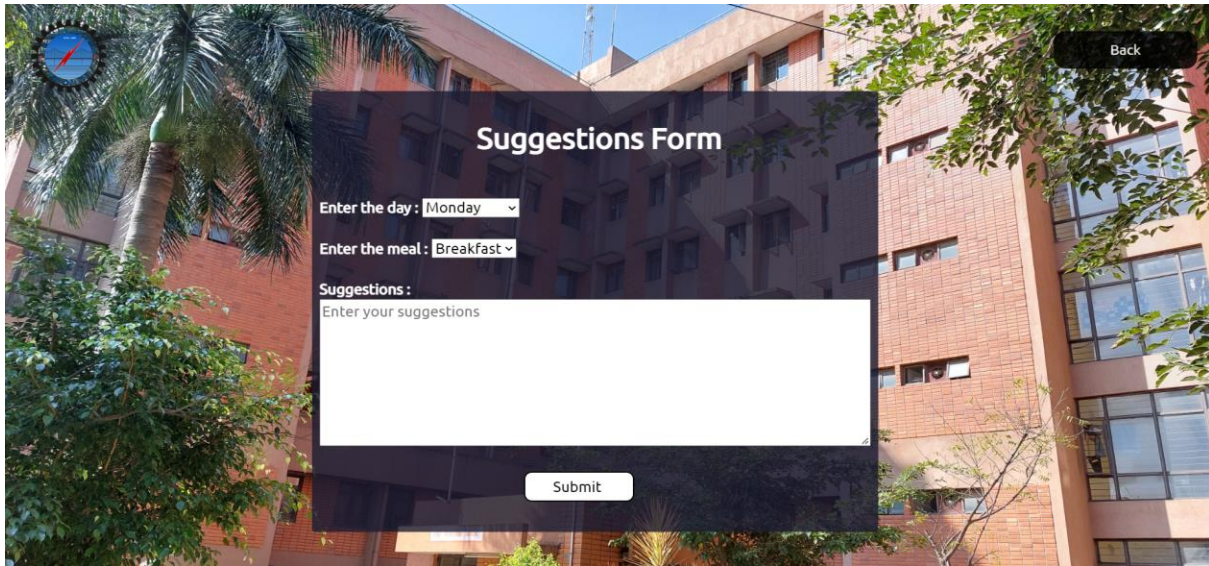
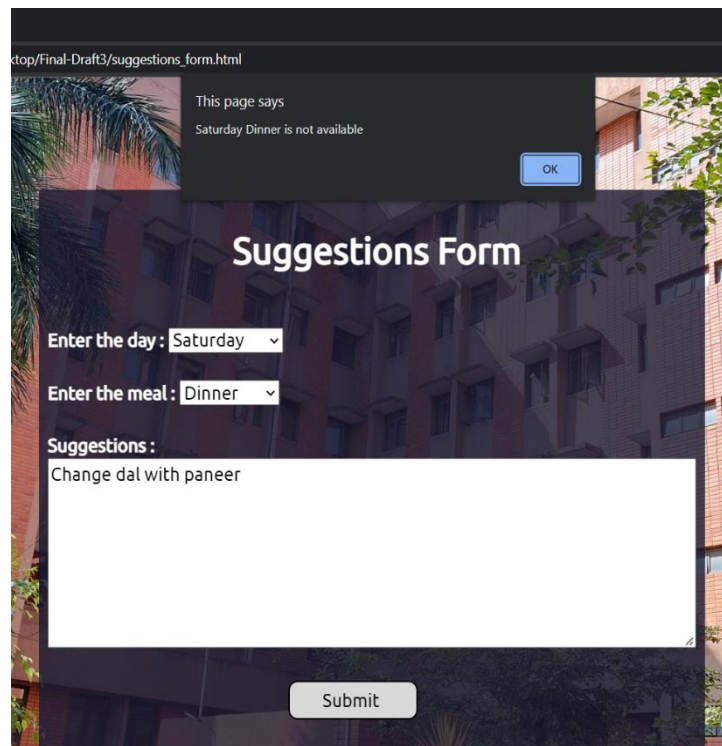
A screenshot of a web application showing a 'Suggestions Form' overlay on a background image of a building and trees. The form has a title 'Suggestions Form' at the top. Below it, there are two dropdown menus: 'Enter the day : Monday' and 'Enter the meal : Breakfast'. Under these is a text input field labeled 'Suggestions : Enter your suggestions'. At the bottom of the form is a 'Submit' button. In the top right corner of the overlay, there is a 'Back' button.

Fig 3.3.3.2

- Suggestion form also checks for cases which aren't possible, for instance user selects "Saturday dinner" or "Saturday snacks" which isn't correct as snacks and dinner are not provided on Saturday.
- Also, it checks if suggestion is invalid or not.

Validations

A screenshot of the 'Suggestions Form' showing a validation error. A dark modal box at the top of the form contains the text 'This page says' and 'Saturday Dinner is not available', with an 'OK' button. The form itself shows 'Enter the day : Saturday' and 'Enter the meal : Dinner' selected in the dropdown menus. The 'Suggestions :' text input field contains the text 'Change dal with paneer'. The 'Submit' button is at the bottom of the form.

y/Final-Draft3/suggestions_form.html?day=Sat&meal=din&reviews=Change+dal+with+paneer

This page says
Suggestion given should be in alphanumeric

OK

Suggestions Form

Enter the day: Thursday

Enter the meal: Snacks

Suggestions:


@kjdsfjs

Submit

Fig 3.3.3.3

3.3.4 Fee-Payment

- The following tab displays fee details of the student and provides an option/button to pay it online.
- Contains information about hostel fee, mess fee and late fee (if any).
- The page is created using <div> tag and table tag.

 **BMS EDUCATIONAL TRUST HOSTELS** Website

NOTIFICATIONS WARDEN DETAILS MESS FEE PAYMENT COMPLAINTS APPLICATIONS PROFILE

RAAVAN - FEE DETAILS

| ACADEMIC DETAILS | |
|------------------|-----------|
| Academic Year | 2022-2023 |
| Year | Second |

| HOSTEL FEES | |
|-------------------|------------------------|
| Amount to be Paid | 0 |
| Balance Amount | 0 Pay Now |

| MESS FEES | |
|-------------------|------------------------|
| Amount to be Paid | 0 |
| Balance Amount | 0 Pay Now |

Fig 3.3.4

3.3.5 Complaint

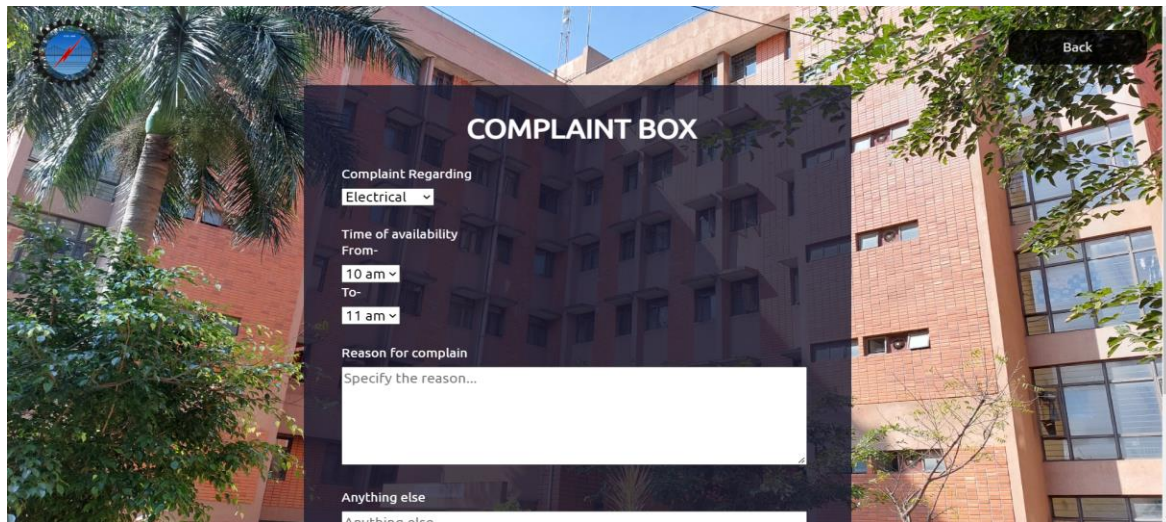
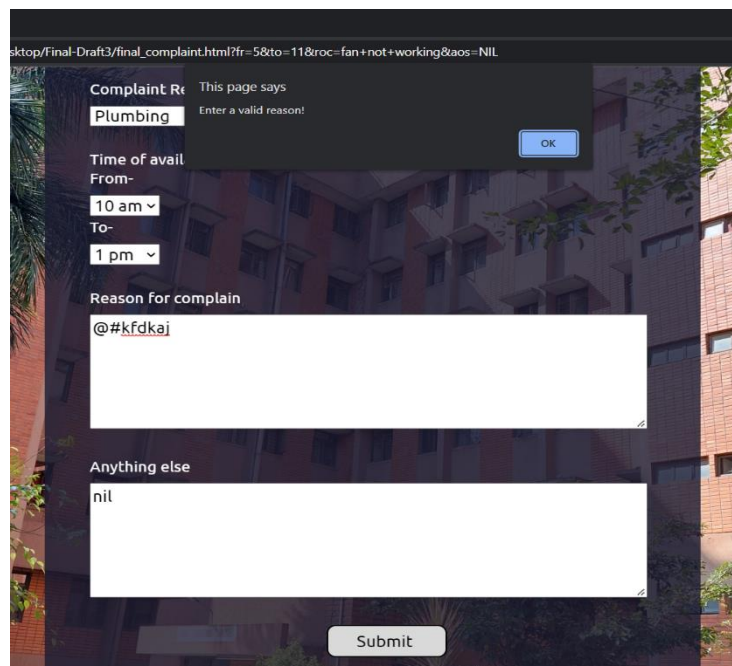


Fig 3.3.5.1

- The following page takes in the general complaints from hostelites, taking in details about time of availability and the reason.
- The page is created using form tag and takes input from the users alongwith checking if the time of availability is appropriate, mobile number is correct and the reason entered is valid.

Validations



desktop/Final-Draft3/final_complain.html

This page says
Select valid time duration!

OK

Complaint Reason
Mechanical

Time of availability
From-
5 pm ▾
To-
11 am ▾

Reason for complain
fan not working

Anything else
NIL

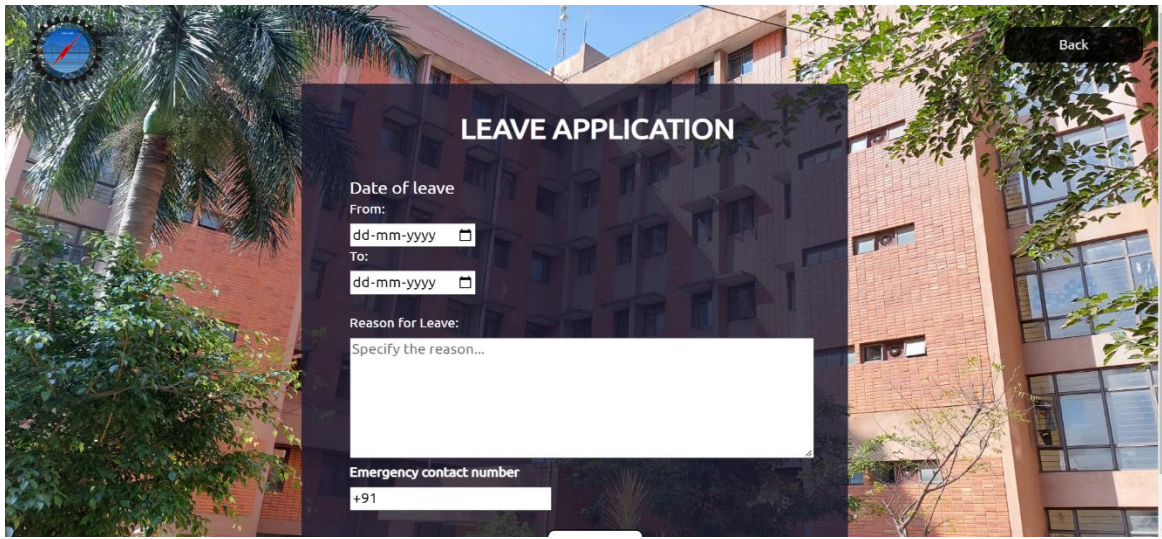
Submit

Fig 3.3.5.2

3.3.6 Application

- The application tab has a dropdown to select for the application to either be a leave application or a late coming application.

3.3.6.1 Leave Application

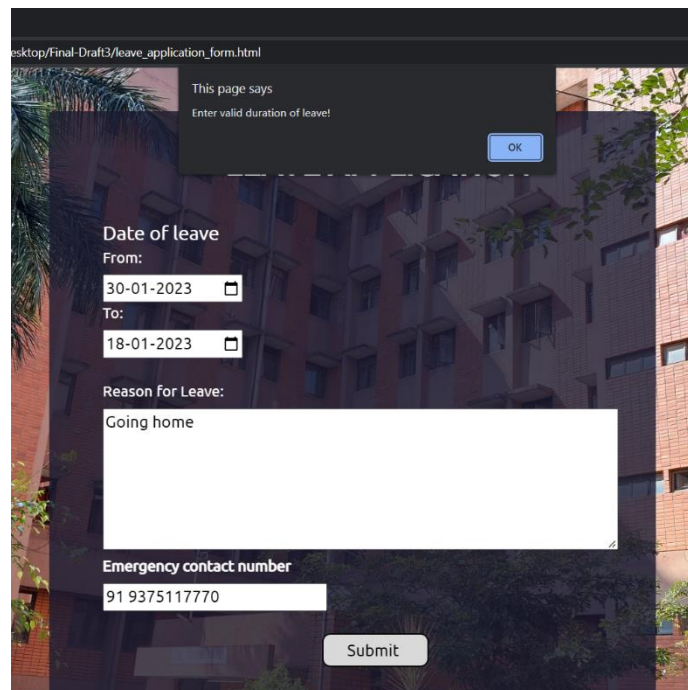


The screenshot shows a web form titled "LEAVE APPLICATION" overlaid on a background image of a building and trees. The form includes a "Back" button in the top right corner. The fields are: "Date of leave" with "From:" and "To:" date pickers (both showing "dd-mm-yyyy"); "Reason for Leave:" with a text area containing the placeholder "Specify the reason..."; and "Emergency contact number" with a text field containing "+91".

Fig 3.3.6.1

- The following page takes in the information about the duration of leave, reason for leave and emergency contact number from the user.
- It checks for if the duration entered is correct, the reason is valid and a valid contact number is entered or not.

Validations



This screenshot shows the same "LEAVE APPLICATION" form, but with a validation error. A modal dialog box is displayed with the message "This page says Enter valid duration of leave!" and an "OK" button. The "From:" date field is populated with "30-01-2023" and the "To:" date field with "18-01-2023". The "Reason for Leave:" text area contains the text "Going home". The "Emergency contact number" field is populated with "91 9375117770". A "Submit" button is visible at the bottom of the form.

Desktop/Final-Draft3/leave_application_form.html?From=2023-01-05&To=2023-01-16&messag=%40%23%24lkfjldsk&phone=91+

This page says
Enter correct phone number!

OK

Date of leave
From:
16-01-2023
To:
25-01-2023

Reason for Leave:
Going home

Emergency contact number
91 25481

Submit

Desktop/Final-Draft3/leave_application_form.html?From=2023-01-30&To=2023-01-18&messag=Going+home&phone=91+93751

This page says
Please enter a valid reason!

OK

Date of leave
From:
05-01-2023
To:
16-01-2023

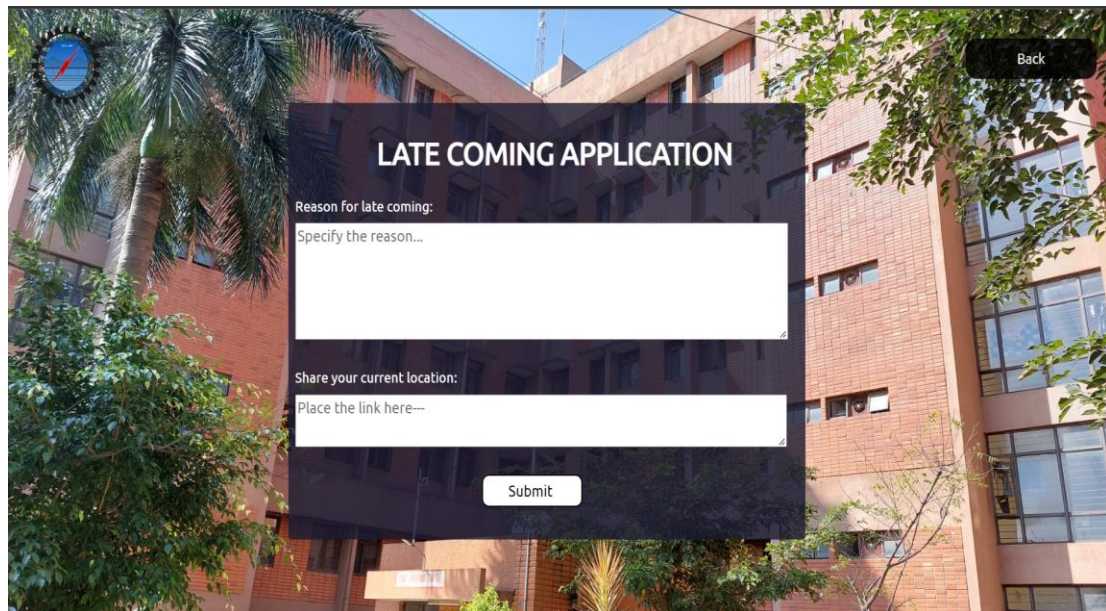
Reason for Leave:
@#\$lkfjldsk

Emergency contact number
91 2587413690

Submit

Fig 3.3.6.1

3.3.6.2 Late Coming Application



Back

LATE COMING APPLICATION

Reason for late coming:
Specify the reason...

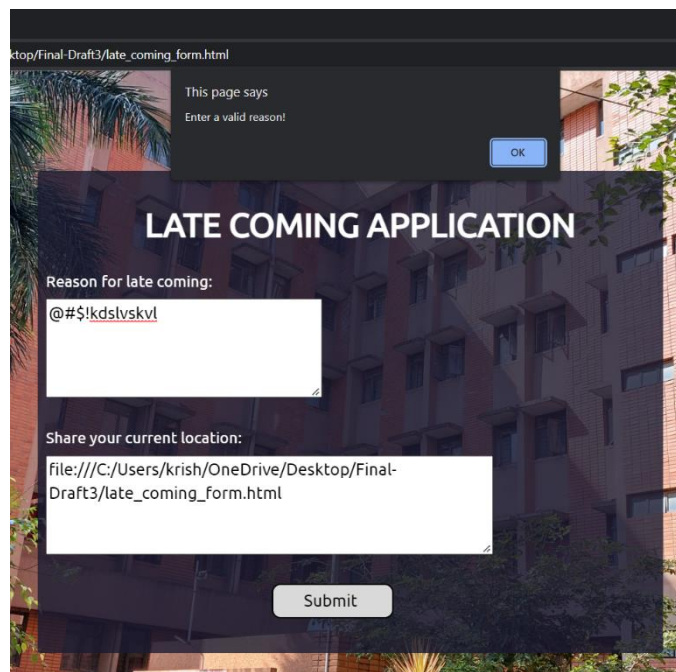
Share your current location:
Place the link here--

Submit

Fig 3.3.6.2

- Following tab helps the user to put in a late coming application taking in inputs about the reason and the current location.
- It checks if a valid reason is entered and a valid link is shared or not.

Validations



ktop/Final-Draft3/late_coming_form.html

This page says
Enter a valid reason!

OK

LATE COMING APPLICATION

Reason for late coming:
@#\$!kds!vskvl

Share your current location:
file:///C:/Users/krish/OneDrive/Desktop/Final-Draft3/late_coming_form.html

Submit

op/Final-Draft3/late_coming_form.html?message=%40%23%24%21kdshsvskvl&link=file%3A%2F%2F%2FC%3A%2FUsers%2Fk

This page says
Incorrect location link shared!

OK

LATE COMING APPLICATION

Reason for late coming:

traffic

Share your current location:

raksraks

Submit

Fig 3.3.6.2